(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 18 December 2003 (18.12.2003)

PCT

(10) International Publication Number WO 2003/104046 A1

(51) International Patent Classification⁷: B6

B60R 21/28

(21) International Application Number:

PCT/SE2003/000750

(22) International Filing Date:

9 May 2003 (09.05.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0212921.1

5 June 2002 (05.06.2002) GB

(71) Applicant (for all designated States except US): AUTO-LIV DEVELOPMENT AB [SE/SE]; S-447 83 Vårgårda (SE).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ANDERSSON, Stefan [SE/SE]; Bäck Pl. 2262 Hemsjö, S-441 96 Alingsås (SE).
- (74) Agent: MEULLER, Erik; Autoliv Development AB, S-448 83 Vårgårda (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

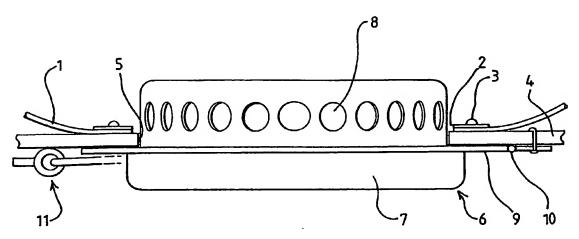
- with international search report
- (48) Date of publication of this corrected version:

17 February 2005

(15) Information about Correction:
see PCT Gazette No. 07/2005 of 17 February 2005, Sec-

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVEMENTS IN OR RELATING TO AN AIR-BAG ARRANGEMENT



(57) Abstract: An air-bag arrangement includes an air-bag (1) and a gas generator (6) to supply gas to inflate the air-bag. The gas generator is hingedly (10) connected to a support (4) and his hingedly movable between a closed position in which the gas generator (6) extends across and closes an apertured is opened to permit the flow of gas from the air-bag. The gas generator is initially retained in position by a retainer (11) the retainer being actuable, in responses to a signal, to enable the gas generator (6) to move hingedly to the open position.



INTERNATIONAL SEARCH REPORT

International application No. PCT/SE 03/00750

PC7: B60R 21/28 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: B60R Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DURSCHINGER, GUNTER), 15 February 2001 (15.02.01) A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11 Characteristics of the search of the patent family annex.								
According to International Patent Classification system followed by classification symbols) IPC7: B60R Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
Minimum documentation searched (classification system followed by classification symbols) IPC7: B60R Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DURSCHINGER, GÜNTER), 15 February 2001 (15.02.01) A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DURSCHINGER, GUNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11								
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 5234229 A (GORDON), 10 August 1993 (10.08.93) 1-11 A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 1-11 A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
Category* Citation of document, with indication, where appropriate, of the relevant passages A US 5234229 A (GORDON), 10 August 1993 (10.08.93)								
A US 5234229 A (GORDON), 10 August 1993 (10.08.93) A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 15 February 2001 (15.02.01) A US 6082765 A (BOWERS ET AL), 4 July 2000 (04.07.00) A US 5695214 A (FAIGLE ET AL), 9 December 1997 (09.12.97)								
A DE 19952967 C1 (DÜRSCHINGER, GÜNTER), 15 February 2001 (15.02.01) A US 6082765 A (BOWERS ET AL), 4 July 2000 (04.07.00) A US 5695214 A (FAIGLE ET AL), 9 December 1997								
A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 (04.07.00) A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
A US 6082765 A (BOWERS ET AL), 4 July 2000 1-11 (04.07.00) A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
15 February 2001 (15.02.01) A US 6082765 A (BOWERS ET AL), 4 July 2000 A US 5695214 A (FAIGLE ET AL), 9 December 1997 (09.12.97)								
A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
A US 5695214 A (FAIGLE ET AL), 9 December 1997 1-11								
(04.07.00) US 5695214 A (FAIGLE ET AL), 9 December 1997 (09.12.97)								
(09.12.97)								
(09.12.97)								
(09.12.97)								
First and assess are listed in the continuation of Box C. Y See patent family annex.								
First and appears are listed in the continuation of Box C. Y See patent family annex.								
First and appears are listed in the continuation of Box C. Y See patent family annex.								
Fruit and appears are listed in the continuation of Box C. V See patent family annex.								
Further documents are listed in the continuation of Box C. X See patent family annex.								
* Special categories of cited documents: "T" later document published after the international filing date or pric date and not in conflict with the application but cited to understand the principle or theory underlying the invention								
to be of particular relevance "B" corder consider the published on or after the international "V" document of particular relevance: the claimed invention cannot be								
filing date "L" document which may throw doubts on priority claim(s) or which is "considered novel or cannot be considered to involve an inventive step when the document is taken alone								
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination								
means being obvious to a person skilled in the art "P" document published prior to the international filing date but later than document member of the same patent family								
Date of the actual completion of the international search Date of mailing of the international search report								
0 1 -09- 2003								
26 August 2003								
Swedish Patent Office								
Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86 Hans Nordström/EK Telephone No. + 46 8 782 25 00								

INTERNATIONAL SEARCH REPORT

Information on patent family members

26/07/03

International application No.

PCT/SE 03/00750

	Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
US	5234229	Α	10/08/93	NONE				
DE	19952967	C1	15/02/01	AU WO	2346001 A 0132478 A		14/05/01 10/05/01	
US	6082765	Α	04/07/00	NONE				
US	5695214	A	09/12/97	DE	19704501	١	07/08/97	